



WALTER NASH ROAD,
KIDDERMINSTER.
WORCESTERSHIRE.
DY11 7HJ.
ENGLAND.
TEL:+44 1562 741515
FAX:+44 1562 745371
klarktechnik.com

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 **KLARK**TEKNIK

Pocket Guide 2011





OLOAD

0dB

IN

OUT

OUT

12

6

30 Hz

SCALE

OLOAD

10

100 1k 20k

0

10

Introduction

In 1974, brothers Phil and Terry Clarke founded Klark Teknik Research Ltd. Their pioneering approach to design and development allowed them to introduce some truly groundbreaking designs. One of the world's first digital delay and digital reverb units emanated from their laboratory, and their descendants remain in common usage all over the world to this day.

However it was their concepts for equalisation devices that really changed the world of professional audio resulting in the uniquely capable DN370 and the world famous DN360.

Today Klark Teknik continues to bring innovation in design, engineering and sonic quality in both the analogue and digital realm of signal processing. With the introduction of the DN9650/52 Klark Teknik have provided a convenient way of bridging the gap between a range of digital audio networks, whether for example it is AES50 to Dante or MAD1 to Dante.

Uniquely in its field, Klark Teknik also provides the customer with an opportunity to invest in leading-edge equipment with an extraordinary working lifespan and unrivalled retained value.

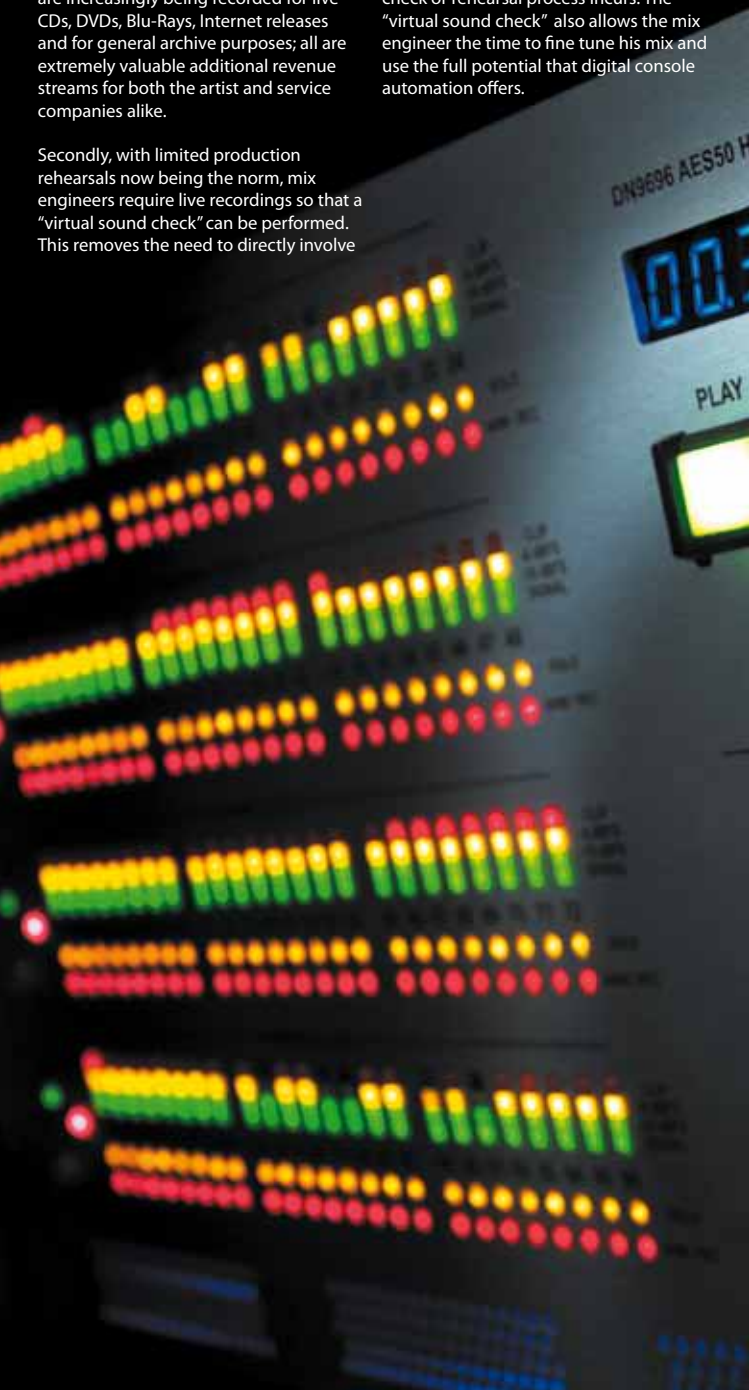
DN9696

high resolution audio recorder

The concert sound industry is constantly evolving. Bands and artists are increasingly being recorded for live CDs, DVDs, Blu-Rays, Internet releases and for general archive purposes; all are extremely valuable additional revenue streams for both the artist and service companies alike.

Secondly, with limited production rehearsals now being the norm, mix engineers require live recordings so that a "virtual sound check" can be performed. This removes the need to directly involve

the artist, and all the associated additional expense and time that a traditional sound check or rehearsal process incurs. The "virtual sound check" also allows the mix engineer the time to fine tune his mix and use the full potential that digital console automation offers.



HIGH RESOLUTION AUDIO RECORDER

00.98.81

ELAPSED
REMAINING
LTC
TIME



POWER

STOP

RECORD

(HOLD TO ARM ALL)

MARKER



BACK



FORWARD



SET



FOOT SWITCH

INTERNAL HDD

EXTERNAL HDD



OK

ERROR



OK

ERROR



USB

SOLO BUS



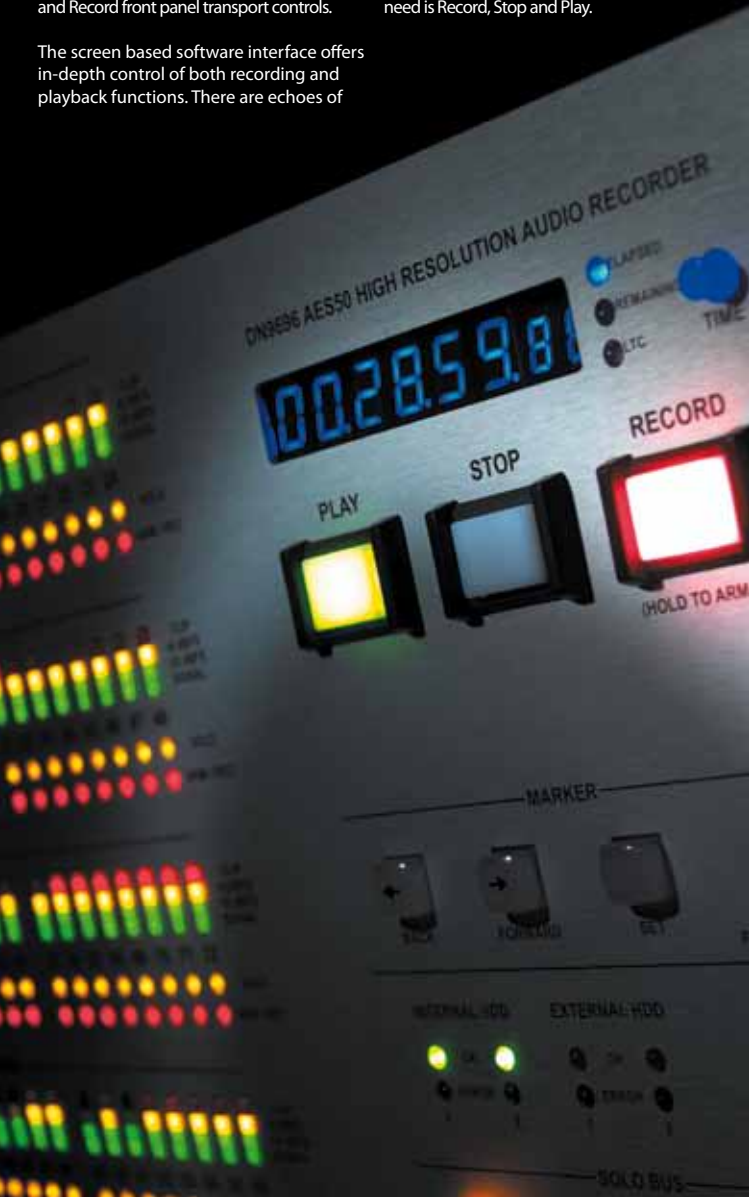
PHONES

To help meet the concert sound industry's requirements, Klark Teknik has engineered an extremely easy to use, simple to setup, standalone hard disk recorder - the DN9696. This High Resolution Audio Recorder offers 96 tracks of 96kHz audio at 24bit, with a massive nine hours of internal storage. There is now no need for external computers linked to multiple non-roadworthy systems with complicated interconnections, just a simple plug and play unit with dedicated Play, Stop and Record front panel transport controls.

The screen based software interface offers in-depth control of both recording and playback functions. There are echoes of

the unique features of Midas' digital audio systems within the DN9696, for example the use of POPulation groups to view, colour and edit tracks, an 'Input Sheet' for quickly naming all tracks as well as 'dual operator' control of the system.

The DN9696 occupies only 5U of rack space with very simple cable requirements and does not demand the expense of a dedicated recording technician. After all, all you really need is Record, Stop and Play.



Front panel description

- 96 x 4 LED input meters
- 96 x Yellow 'SOLO' LED indicators
- 96 x Red 'ARM / REC' LED indicators
- 4 x 'SELECT' switches
- 8 x Pairs of AES50 status LED indicators
- 1 x Time display
(8 x Blue 7 segment displays)
- 1 x 'TIME' display mode select switch
- 3 x Blue LED time display mode indicators
- 3 x Transport switches, 'PLAY', 'STOP' and 'RECORD'
- 3 x Marker switches 'SET', 'BACK' and 'FORWARD'
- 1 x 'SOLO' switch
- 1 x 'SOLO' encoder
- 1 x Headphone rotary level control
- 1 x Headphone output (1/4" jack)
- 1 x Footswitch input (1/4" jack)
- 4 x Pairs of Hard Drive status LED indicators
(2 x internal, 2 x external)
- 2 x USB 2.0 (type 'A') connectors
- 1 x Klark Teknik Tufflex roundel with Blue LED illumination
- 1 x Recessed 'POWER' switch

Rear panel description

- 8 x AES50 Connectors - Neutrik Ethercons with status indication
- 1 x Linear Time Code Input - Neutrik B Series Female XLR
- 1 x DVI-I Output (or VGA Output with optional adapter)
- 1 x VGA Output
- 2 x Firewire 800 Connectors (Minimum)
- 2 x eSATA Connectors (Minimum)
- All other ATX Motherboard connectors will vary depending on the Motherboard used, but should include 2 x PS2 or 2 x USB 2.0 connections for a keyboard and mouse (KVM)
- 2 x USB 2.0 For archiving
- 1 x Mains Switch
(part of the ATX Power Supply)
- 1 x IEC Power inlet
(part of the ATX Power Supply)



DN9650 and DN9652

digital audio format converters

Engineers are faced with a variety of digital audio network protocols which raises the problem of compatibility.

However Klark Teknik have developed two digital audio format converters allowing a seamless integration between a number of standard networks.



The DN9650 network bridge allows the AES50 interfaces on Midas XL8 and PRO Series digital audio systems, Klark Teknik's DN9696 high resolution audio recorder and all Midas I/O units to connect to third party multichannel digital audio networks. Supported formats include MADl, Audinate* Dante, Aviom* A-Net, Cirrus Logic* Cobra Net and Digigram* EtherSound utilising network modules designed and manufactured by Lab X Technologies*, Audinate* and Cirrus Logic*.



The DN9652 dual network bridge replaces the AES50 connections with a slot for a second network module. This creates a unique product enabling conversion between many multi-channel digital audio formats, for example MADl to Dante or CobraNet to Ethersound. The DN9652 will find a myriad of uses solving all kinds of 'hard to fix' networking problems in a simple manner requiring little networking skill to deploy.



Both models include an astonishing 144 channels of high performance sample rate conversion and independent synchronisation for the two interfaces, including black burst, word clock and AES3. The minimal configuration requirements are simply set up using a standard web browser and an auto-configured Ethernet interface to the unit.

Units support

- AES50
- MADl
- Audinate Dante
- Aviom A-Net
- Cirrus Logic CobraNet
- Digigram EtherSound

144 Channels of high performance sample rate conversion

Independent Synchronisation: including black burst, word clock and AES3

Exemplary Klark Teknik audio performance

1U

* All trademarks acknowledged.

DN9331 RAPIDE

graphic controller

Unique, immediate and tactile, the DN9331 Helix RAPIDE offers direct access to all of the graphic equalisation functions of Helix digital equalisers.

Instant recall of fader positions is made possible by the use of 31 console-quality 100 mm long travel high resolution motorised faders. These are custom manufactured to Klark Teknik's exacting standards, featuring long life conductive plastic tracks and driven by fast acting precision servo control circuits. A generously specified power supply ensures high speed of response, and can supply the peak currents required by simultaneous multiple fader movements,

without the lag effects experienced with lower-grade remote fader units.

Integrating a Midas/Klark Teknik STS Solo Tracking System interface, the Helix RAPIDE is ideal for use in stage monitoring systems. When combined with a Midas Heritage, Legend, Siena or XL8 Live Performance System, the solo buttons on each aux send can be used to instantly recall the graphic equaliser settings of the connected channel of Helix digital equalisation. This offers the monitor engineer unparalleled speed of access in situations demanding an immediate response.



A flexible user interface allows custom remote channel assignments across four banks of 32 channel selection buttons. Four freely assignable group buttons and a global 'all channels' button allow relative adjustment of channels, especially important when the priority is to stop on-stage feedback first and determine the source second.

The Helix RAPIDE is the networking centre of the Show Command System. An eight external port Ethernet hub is incorporated into the device, allowing the

connection of Helix digital equalisers and system processors, with wired or wireless connections to laptop or tablet PCs running Elgar, Helix EQ RCS and System Controller RCS.

The Helix RAPIDE is fully backwards-compatible with the original Helix DN9340 and DN9344 digital equalisers which may be interfaced using Ethernet-to-serial converters.

- ➔ Direct access to all graphic equalisation functions of Helix digital equalisers
- ➔ 31, 100mm high resolution, high-speed motorised faders
- ➔ Solo Tracking System in conjunction with a Midas XL8, Heritage, Legend and Siena
- ➔ Remote control channel assignments across 4 banks of 32 channel selection buttons
- ➔ 4 Group buttons
- ➔ 8 Ethernet ports allowing connection to Helix digital equalisers and system processors with wired or wireless connections to a PC running ELGAR, Helix EQ RCS and System Controller RCS
- ➔ Backwards compatible to non Ethernet DN9340 and DN9344 using Ethernet to serial converters
- ➔ Available as part of the Midas XL8 Live Performance System



DN9848E

system controller

The digital system controller has been one of the fastest developing areas of signal processing in recent years. This is principally because it allows designers to combine a number of key control functions within a single device, thereby lowering overall costs and adding convenience. Unfortunately, in many cases the relevance of the audio performance of the device has been overshadowed by the 'bells and whistles' functionality of the unit, ultimately somewhat defeating the object of the exercise. With the Klark Teknik Helix DN9848E System Controller, no compromise has been made in either the feature set or the audio performance.

The Helix DN9848E brings a new level of flexibility to system control whether for live production or installation use. Since there is no preset routing within the device, it can be easily preprogrammed to perform almost any system-control task. Limiters and compressors on all outputs plus compressors on all inputs provide ultimate speaker control and protection, whilst no less than ninety-six bands of fully parametric EQ allow for both room and system equalisation. Best of all, there's enough processing power onboard to allow every function to be available all the time, regardless of what is already in use.



The DN9848E System Controller features AES/EBU digital inputs as standard. Whilst the internal sample rate of the DN9848E unit remains at 48 kHz, these digital connections are all 96 kHz compatible allowing easy interface with any other digital device featuring the higher sample rate. The unit now features a dual port Ethernet communications interface. This is to facilitate much faster communication, response and metering when controlling multiple units, than was previously possible with serial comms.

The DN9848E incorporates some customer-requested operational additions. The user-configurability of the unit includes full matrix mixing capability between inputs and outputs, providing an unequalled level of flexibility. Whilst programming, inputs or outputs can now be 'ganged' so that the user can enter program data into one input or output menu and all connected inputs

or outputs will be simultaneously updated. Input and output parameters can also be copied from one to another. The internal memory structure has also been revised such that it is now possible to back up the RAM-based system memories into non-volatile flash memory.

The proprietary ELGAR software coupled with Helix System Controller Remote Control Software (RCS) Add-In allows simple up-and-down-loading of system parameters into the FLASH memory locations, as well as storage and transmission of system information.

Should for example you need a new system configuration to be loaded into a unit on the other side of the world? No problem, simply email the ELGAR file to wherever it needs to go, it can then be uploaded into the unit in seconds.

- ➔ 4 input and 8 outputs, 1RU
- ➔ 12 delay lines / 16 all-pass filters / 16 hi and lo pass filters
- ➔ 4 comps / 8 zero overshoot / 96 bands of PEQ
- ➔ Grouping facility allows unique system control
- ➔ All facilities available all the time
- ➔ Full matrix mixing between inputs and outputs
- ➔ Ganging of inputs and outputs
- ➔ Input and outputs parameters can be copied between one another
- ➔ Flash memory locations
- ➔ Dual Ethernet control ports AES/EBU digital inputs
- ➔ Totally flexible routing allows DN9848E to run almost any type, configuration or make of system
- ➔ It also allows amp racks to be truly multi-functional because they can be reconfigured to any application quickly and with no re-patching
- ➔ Full Remote control, wired or wireless, via PC and ELGAR and System Controller Remote Control Software



DN370

graphic eq

The Klark Teknik DN370 is the latest evolutionary step in a process of design refinement that goes back over 30 years. With DN370 we've started from the ground up and produced a unit that is totally without compromise, and one that we believe is the finest professional graphic equaliser in the world today. It also perfectly complements the existing Klark Teknik range of equalisers, both analogue and digital.

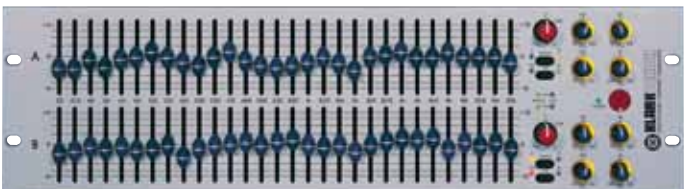
Our aim is simply to provide discerning professional users with the best possible solutions for system control. Our market research shows that the graphic

equaliser is still the most commonly-used EQ device in fixed and mobile live sound applications, as well as many installations, mainly because the physical user interface provides instant access and controllability in even the most demanding environments. To this end we have completely re-evaluated the role of the graphic EQ, focusing exclusively on providing a new feature set that better reflects the needs of modern users.

Like all Klark Teknik units, DN370 is engineered for a lifetime of hard use and carries our 3-year international factory warranty.



- Long-throw 45mm oil-damped faders with dust cover for increased accuracy and resolution
- All-new proportional-Q filters provide optimum control without undesirable audio artifacts
- Gain control with +6dB/-infinity range and centre detent at unity gain. Allows effective muting of channel in emergencies.
- Range switch selects 6dB or 12dB operation for the faders, with LED indication
- Channel bypass switch with LED indication the unit also provides automatic relay bypass in the event of power failure
- Sweepable high-pass filter with 20Hz to 500Hz range sets the lower frequency limit of the system. The control incorporates a push switch to select the filter in and out, with an illuminated ring for at a glance status indication. Invaluable for smooth rejection of unwanted subsonic and low frequencies, particularly relevant with modern, compact wedge monitors.
- Sweepable low-pass filter with 2kHz to 20kHz range sets the upper frequency limit of the system. The control incorporates a push switch to select the filter in and out, with an illuminated ring for at a glance status indication. Provides optimum bandwidth control for vocal monitors and IEM systems.
- Two sweepable notch filters per channel, with overlapping frequency ranges of 20Hz to 2kHz and 200Hz to 20kHz. These allow precise removal of problem frequencies with minimal effect on the rest of the program material, and fast control of between fader frequencies. This gives precise control of room and loudspeaker resonance/feedback nodes with minimum loss of energy even between ISO centres. The controls each incorporate a push switch to select the filter in and out, with an illuminated ring for at a glance status indication.
- Bypass switch with status LEDs for quick comparison of applied EQ
- Power switch, fully recessed in the on position to avoid accidental operation
- Signal present LEDs show the presence of audio signals above 40dBu
- Multi point clip monitoring. Clip warning LEDs illuminate when the level exceeds +20dBu (2dB below the onset of clipping) to assist in optimum system gain setting.
- Electronically balanced inputs and outputs (transformer balancing is available as an option). Connections are provided on both XLRs (pin 2 hot) and Phoenix-type strip connectors for fixed installation.
- IEC mains inlet. The unit automatically adjusts for operation on all voltages from 100 to 240V AC.



DN360

graphic eq

Very occasionally, a design is so correct from the very start that it needs little or no development over many years.

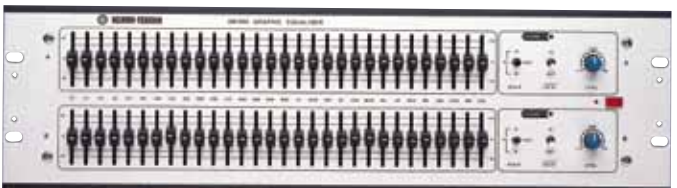
The Klark Teknik DN360 has been in continuous production for over twenty years with only one minor design revision, and is still the most popular analogue graphic equaliser on the planet.



With tens of thousands of units shipped worldwide to date, DN360 has achieved ubiquity in pro-audio circles. So why is it so enduringly popular? Like all KT units it is well designed and engineered to very high standards so will handle continuous road use with only minimal service. They are also very consistent, so engineers using units sourced locally all over the world will get the same response every time.

But perhaps most important of all is the way they sound – it's notoriously difficult to describe sound, but talk to anyone that prefers DN360s to any other graphic and they will use words like 'musical', 'smooth' 'responsive' and 'great sounding'. Primarily this is because we use proportional-Q filtering, where the 'Q' value of the frequency increases as the cut or boost increases. This provides a flowing response at low cut / boost values, but also accurate frequency control at higher values.

- ➔ 2 x thirty, oil damped 30mm precision faders graphically positioned at 1/3 octave ISO frequencies between 25Hz-20kHz
- ➔ Proprietary circuit designs utilising MELT filters giving unbeatable performance
- ➔ Comprehensive standard specifications include electronically balanced inputs and LED overload indicators
- ➔ Earth lift switch enables signal and chassis grounds to be isolated eliminating ground-loop problems
- ➔ Useful low cut 18dB/octave filters preventing subsonic components from overloading speakers or amplifiers
- ➔ Equalisation by-pass allowing easy comparison between direct and equalised signals
- ➔ Scale switching gives the choice of either high fader resolution (6dB) or normal (12dB)



DN1248 *Plus*

mic splitter

Even in this digital age, we've kept sight of the numerous applications where analogue devices provide the best solution. One such application is providing multiple feeds from a single source, hence the introduction of the DN1248 Plus Active Signal Splitter.



Housed in a roadworthy 3RU chassis with internal power supply, a single DN1248 Plus provides twelve input channels, each feeding four outputs, two of which are electronically balanced and two which are transformer isolated.

Output 4 is located on the rear of the unit, as are duplicates of all the inputs and output 1, so the patching options are extremely flexible. The microphone preamplifier is a Midas Heritage series unit, specially adapted to the task and providing all the great sound and headroom for which Midas preamps are world famous.

Several factory options are available for DN1248 Plus: the 'DP' option, which provides (at very low cost) a second, linked internal PSU to provide auto-backup in the case of PSU failure.

The 'AT' option provides transformer balancing for all 48 outputs, and the 'FM' variant combines both 'DP' and 'AT' advantages. Plus, the whole unit is designed so that a customer can easily retrofit the multipin connector and input / output configuration of their choice.

- New connector configuration allows instant system upgrade with no re-wiring
- Internal dual-redundancy power supply available as a low-cost factory option
- Midas Heritage Series pre-amplifier and unique KT design provides ultimate audio quality
- Three year International factory warranty
- Internal power supply with factory option of backup PSU



DN530

creative quad gate

The key to silent gating is the shape of the gain transition curve that is used to ramp up the signal level when the gate opens (attack) and fade it back down when the gate closes (release). The DN530 features a carefully mapped logarithmic attack envelope, to ensure fast, silent gating.



The DN530 Quad Gate also boasts "Transient Accenting", a creative feature providing an easy way to enhance the attack envelope beyond merely opening the gate. This can provide up to 12dB of additional transient energy. Its primary application is to provide additional impact on drums and percussion instruments, although it can be used to enhance the impact of many instruments, including acoustic stringed instruments such as guitar and piano. Transient Accenting is unique in that it allows the operator precise control

over the amount of enhancement applied to each channel of processing, and can be applied independently of the gating function.

The DN530 brings a creative flare to drum channels with its unique Transient Accenting feature which largely eliminates the need for excessive EQ or compression.

- ➔ Quad channel gate
- ➔ It features a unique progressively controllable accent level that emphasizes the start of a signal to increase the dynamic power within percussive signals
- ➔ Gate attack is exponential which means it can be set extremely fast to reduce signal loss at the start of sounds while remaining sonically transparent – no clicks
- ➔ Gate release is reverse exponential so it can be set relatively fast and blend in seamlessly with the natural decay of the material
- ➔ Designed from an exemplary technical point of view, features extremely low noise and distortion levels
- ➔ The gate features an advanced band pass side chain filter to increase trigger source discrimination
- ➔ The gate provides rotary controls for all envelope characteristics and range
- ➔ External key inputs and ducking facilities are provided
- ➔ The status of bypass, solo and other major switches are boldly presented to avoid mistakes
- ➔ Road worthy chassis
- ➔ Balanced outputs
- ➔ Auto switching power supply
- ➔ 1U

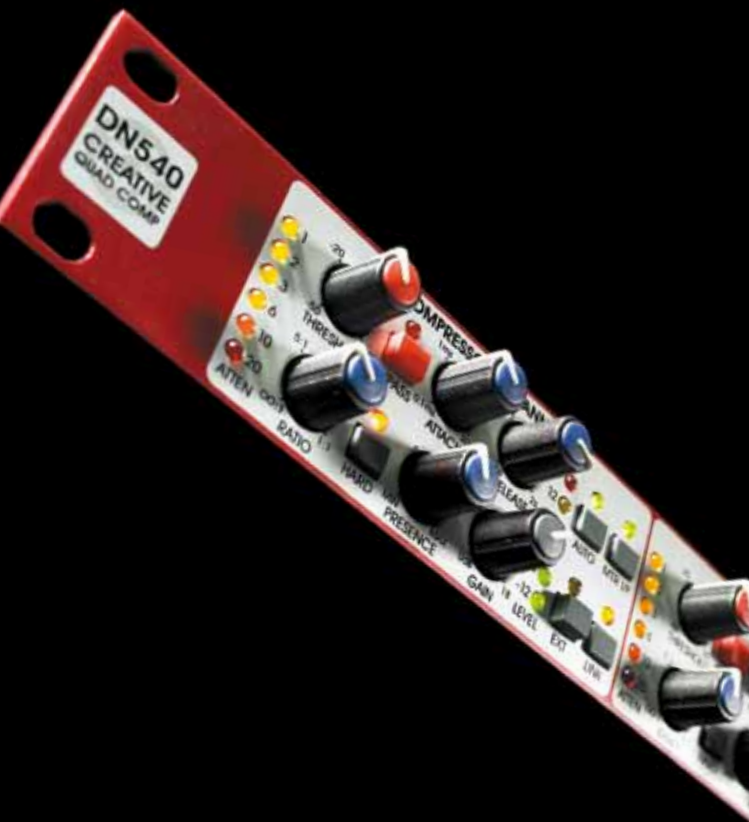


DN540

creative quad comp

Throughout the history of dynamics processing many different types of compressor have been produced using many different types of gain technology. Each type has a distinctive sound. Users have found many applications which benefit from these often unintentional compression audio artefacts, taking the

use of compressors far beyond simple dynamic range reduction, sometimes even generating the complete reverse; dynamic enhancement.



It is with these creative applications in mind, that the DN540 Quad Compressor features a unique "Harmonic Enhancement" presence control. When this is engaged, the harmonic content of the material is preserved in a more natural and dynamic state, in a spectral area where we are most perceptive to detail. This allows more compression to be applied, providing greater control of programme dynamics, without the source material sounding dull, lacking in detail and unnatural. Dynamically enhanced compression can produce

results that are very similar to multiband compression but with only one additional control required (as opposed to many) it is considerably less time consuming to set up and typically does not require constant tweaking during a performance.

With its unique presence feature the DN540 will be especially useful on vocals to eliminate the "pumping" effects of spill and to add "air" to the sound without introducing noise.

- ➔ Quad channel compressor
- ➔ Easy to use and requires minimum set up to produce excellent results
- ➔ Features a unique and intuitive presence control that improves the high frequency sound quality without increasing noise or squealing (howl-round)
- ➔ Features extremely low noise and distortion levels
- ➔ Designed from a sonic point of view and can produce extremely transparent compression
- ➔ Advanced envelope generator with manual controls that can be easily switched in or out to produce transparency or creative dynamic effects
- ➔ The compressors intuitive turn it up, turn it down approach to control knob labeling avoids confusion during fast adjustment
- ➔ The status of bypass, solo and other major switches are boldly presented to avoid mistakes
- ➔ Linking features true power summing so it always provides true threshold setting for stereo material
- ➔ Great sounding compressor as it has been "tuned" by ear
- ➔ Road worthy chassis
- ➔ Balanced outputs
- ➔ Auto switching power supply
- ➔ 1U



DN100

di box

The Klark Teknik DN100 Direct Injection Box provides a wide dynamic range, low noise floor and all the world-class audio performance you'd expect from Klark Teknik. DN100 is also designed to handle the rigours of life on the road: a thick aluminium shell protects the electronics, and this in turn is protected by a tough silicone rubber casing, which is replaceable and available as a spare part.

We've also fitted a Kensington security slot in one of the end panels to allow the unit to be made secure using a Kensington MicroSaver security cable.

Attention to detail – it's what makes a good unit into a great one.





Square ONE

Dynamic

The constantly-changing hardware requirements of technical riders are just one of the many issues audio rental companies and live music venues have to deal with. Having to retain a comprehensive inventory of different devices, as well as reconfiguring outboard processing racks is a costly, time-consuming task, further complicated

by the number of hardware options available.

The solution: Klark Teknik Square ONE dynamics. Eight channels of flexible, configurable, high-performance dynamics processing in one 3U package. The right brand, the right combination, the right investment, every time.



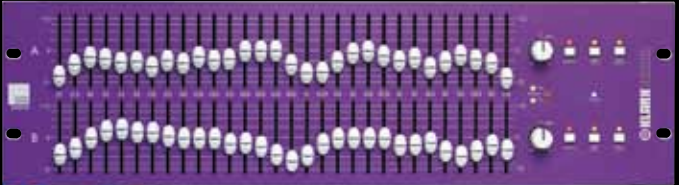


Square ONE

Graphic

Klark Teknik has been designing audio equalisers since 1975, and has an impressive back catalogue, which includes the DN27, DN360 and DN370 three of the industry's finest and longest-established designs.

The Square ONE graphic represents 30-years of Klark Teknik's design expertise, offered at a more accessible price point, bringing superb audio performance within reach of the most budget-sensitive applications.





Square ONE Splitter

The analogue audio splitter remains the most versatile and cost effective way of distributing audio signals to multiple locations, especially in a world where digital and analogue consoles are paired in Front of House and monitor configurations, and digital consoles employ different audio transport protocols.

The Square ONE Splitter provides a simple solution with a user-friendly, high-performance, Midas XL8 inspired pre-amp design, packaged in a 2U, eight channel format.

To increase versatility and provide additional value, a third set of transformer-isolated independent (fixed gain) outputs are provided plus the Square ONE Splitter's ability to function as a 1-16 media split.

Audio performance, as with all KlarkTeknik's units, are of a superlative standard.



FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT ACTIVE SWITCH

1 2 3 4 5 6 7 8

This is the top module of a rack system. It features a purple faceplate with eight parallel input ports on the left, each labeled with a number from 1 to 8. To the right of each input port is an active switch. The module is labeled "FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT" and "ACTIVE SWITCH".

FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT ACTIVE SWITCH

1 2 3 4 5 6 7 8

This is the second module in the rack, identical in design to the top module. It has eight parallel input ports and eight active switches. The labels "FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT" and "ACTIVE SWITCH" are visible, along with the numbers 1 through 8.

FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT ACTIVE SWITCH

1 2 3 4 5 6 7 8

This is the third module in the rack, identical in design to the previous two. It features eight parallel input ports and eight active switches, with labels "FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT" and "ACTIVE SWITCH" and numbers 1 through 8.

FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT ACTIVE SWITCH

1 2 3 4 5 6 7 8

This is the fourth module in the rack, identical in design to the previous three. It has eight parallel input ports and eight active switches, with labels "FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT" and "ACTIVE SWITCH" and numbers 1 through 8.

FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT ACTIVE SWITCH

1 2 3 4 5 6 7 8

This is the fifth module in the rack, identical in design to the previous four. It features eight parallel input ports and eight active switches, with labels "FIXED GAIN ISOLATED OUTPUT C PARALLEL INPUT" and "ACTIVE SWITCH" and numbers 1 through 8.

↑ ↑
HANDLE WITH CARE

↑ ↑

↑ ↑